

Title (en)
SYSTEM FOR FABRICATION OF INDIRECT DENTAL RESTORATIVES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ZAHNRESTAURATIONEN

Title (fr)
SYSTEME POUR LA FABRICATION DE PRODUITS DESTINES A LA RESTAURATION DENTAIRE INDIRECTE

Publication
EP 1018973 B1 20041208 (EN)

Application
EP 98906177 A 19980213

Priority
• US 9802271 W 19980213
• US 3973197 P 19970214
• US 6766697 P 19971205

Abstract (en)
[origin: WO9835630A2] A process for the fabrication of indirect dental restoratives includes the making of a first, pre-operative impression of a tooth to be restored using a first polyvinyl silicone (PVS) material disposed in a clear tray, followed by the preparation of the tooth. A second, final post-operative impression of the tooth is taken utilizing a second PVS material. A tooth model is then made by pouring a low viscosity and suitably rigid, third PVS material into the final impression. Prior to the complete setting of the low viscosity PVS material, a higher viscosity, fourth PVS material is applied onto the model PVS material to form a completed model with base. The model is then fitted into the pre-operative impression matrix made from the first PVS material. Layers of composite are packed onto the impression in the clear matrix. The model (with attached base) is then inserted into the composite disposed in the first PVS material and the resulting matrix is placed in a single apparatus for conducting both light and heat cure of the dental composite. The apparatus employs a thermister disposed in a composite material, the thermister/composite assembly being disposed in the curing chamber and connected to a control device which controls a heat lamp also disposed in the apparatus. Curing of the dental composite is performed by heating until the thermister reaches a selected temperature.

IPC 1-7
A61C 13/00; **A61C 5/00**

IPC 8 full level
A61C 5/77 (2017.01); **A61C 13/00** (2006.01); **A61C 13/15** (2006.01)

CPC (source: EP)
A61C 5/77 (2017.01); **A61C 13/0003** (2013.01); **A61C 19/003** (2013.01)

Cited by
EP2716276A2; DE102013008176A1; US9833387B2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9835630 A2 19980820; **WO 9835630 A3 19990128**; AT E284178 T1 20041215; AT E476151 T1 20100815; AU 6147298 A 19980908; AU 717115 B2 20000316; CA 2278859 A1 19980820; CA 2278859 C 20070529; DE 69828072 D1 20050113; DE 69828072 T2 20050428; DE 69841812 D1 20100916; EP 1018973 A2 20000719; EP 1018973 B1 20041208; JP 2001517110 A 20011002; NZ 336897 A 20010330

DOCDB simple family (application)
US 9802271 W 19980213; AT 04007452 T 19980213; AT 98906177 T 19980213; AU 6147298 A 19980213; CA 2278859 A 19980213; DE 69828072 T 19980213; DE 69841812 T 19980213; EP 98906177 A 19980213; JP 53582898 A 19980213; NZ 33689798 A 19980213